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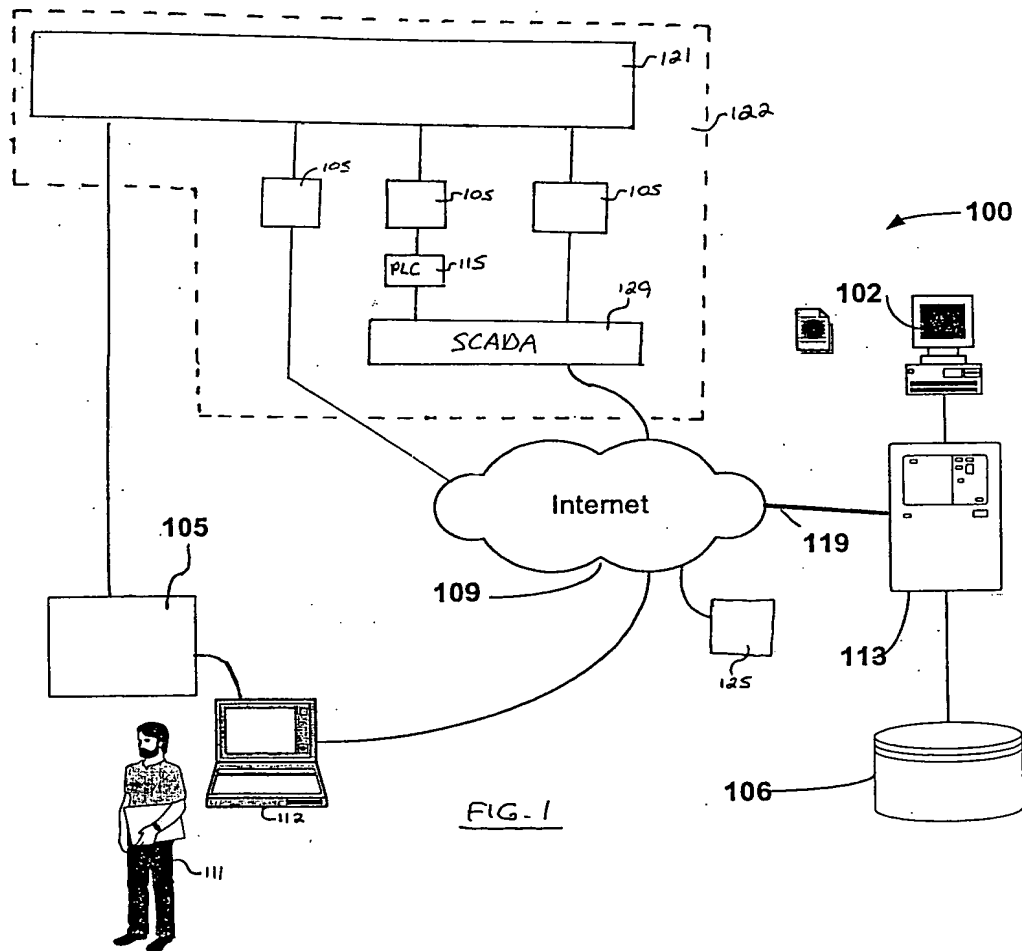
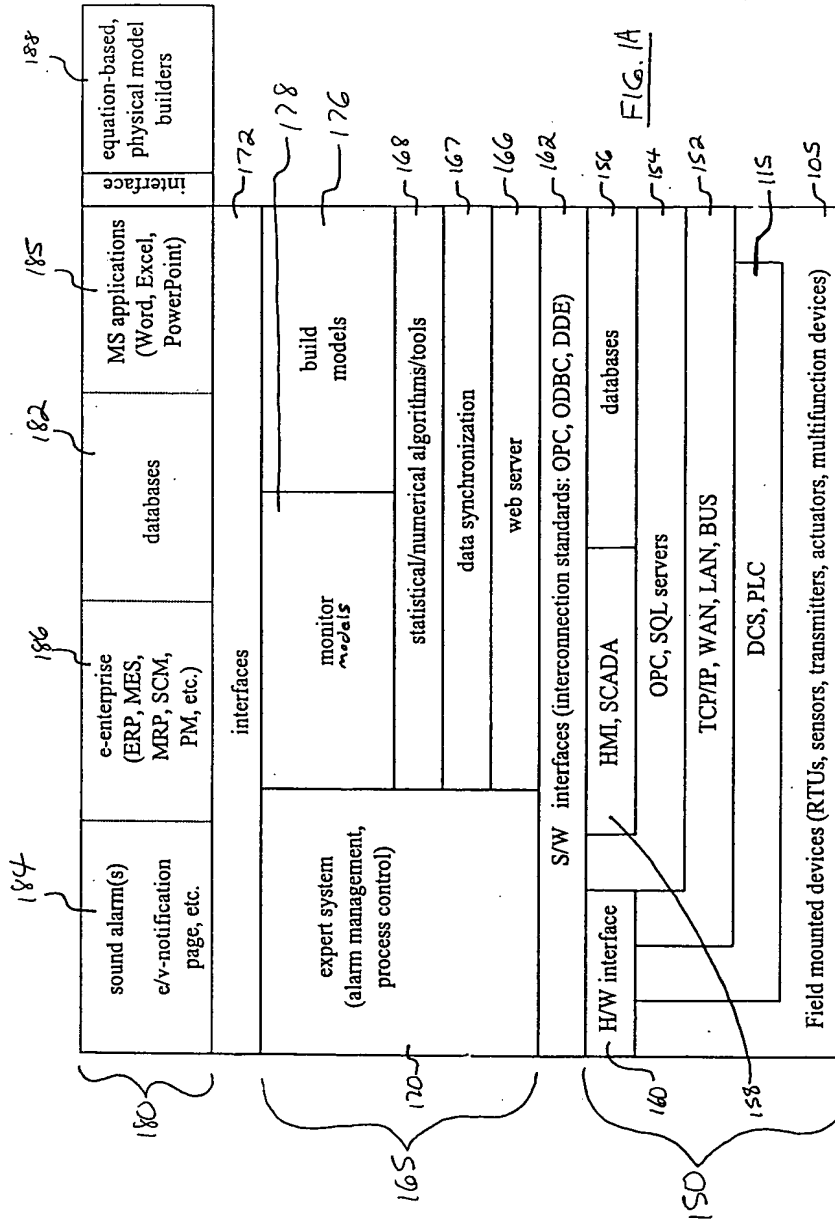
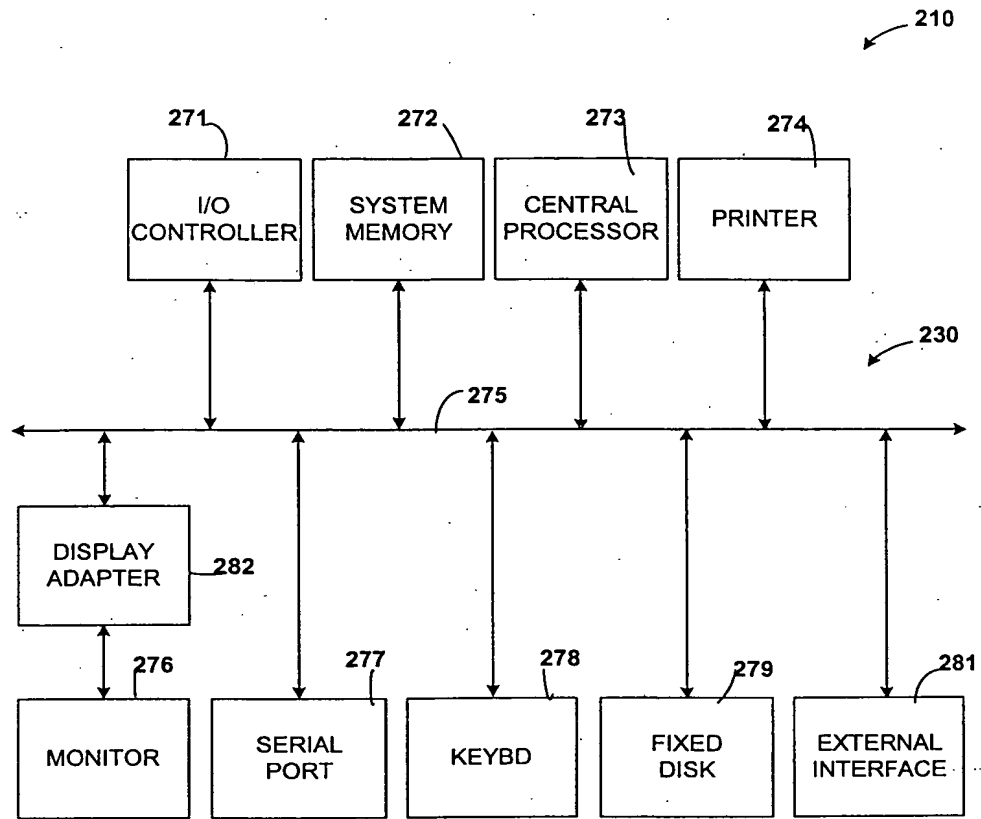


FIG. 1

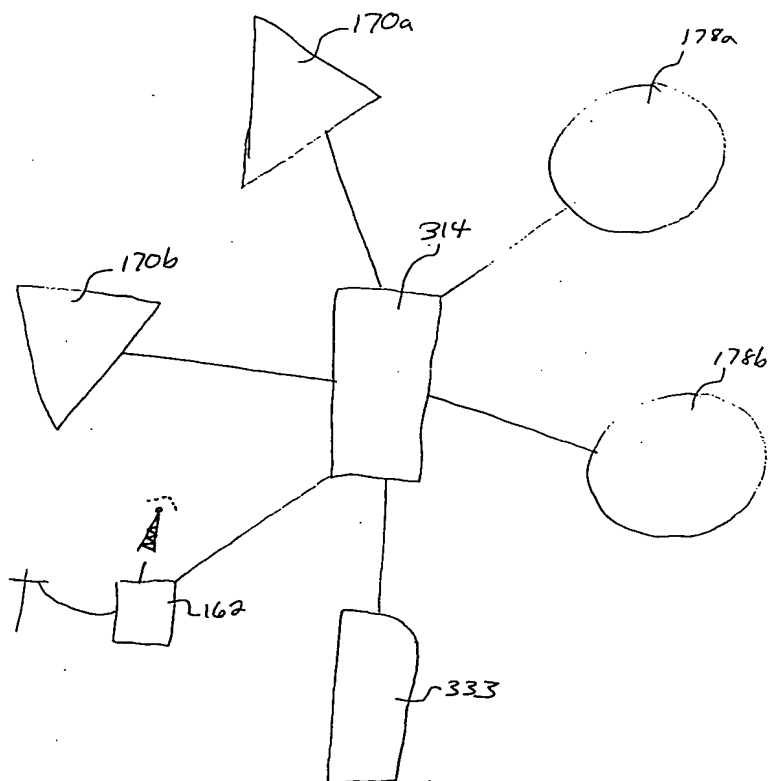






**FIG. 2A**



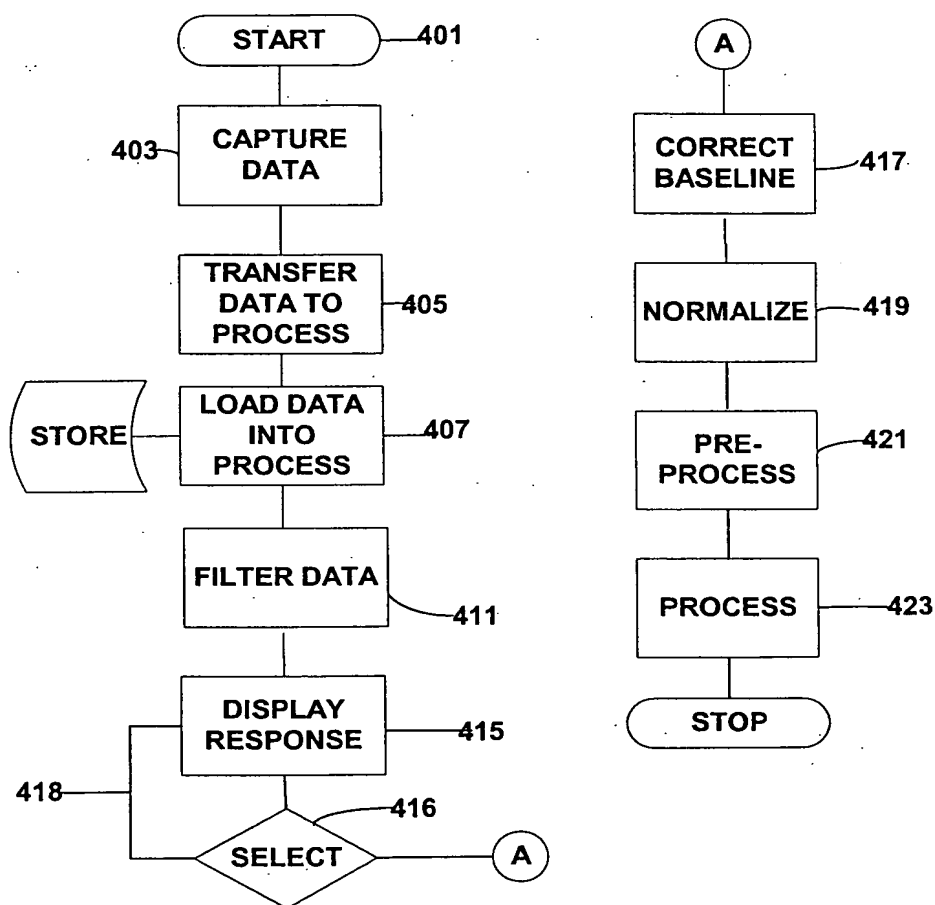


FLG-3A

351A	351B	351C		351
352A				352
355A				355
				357
359A		359C	359NTH	359

**FIG. 3B**

400





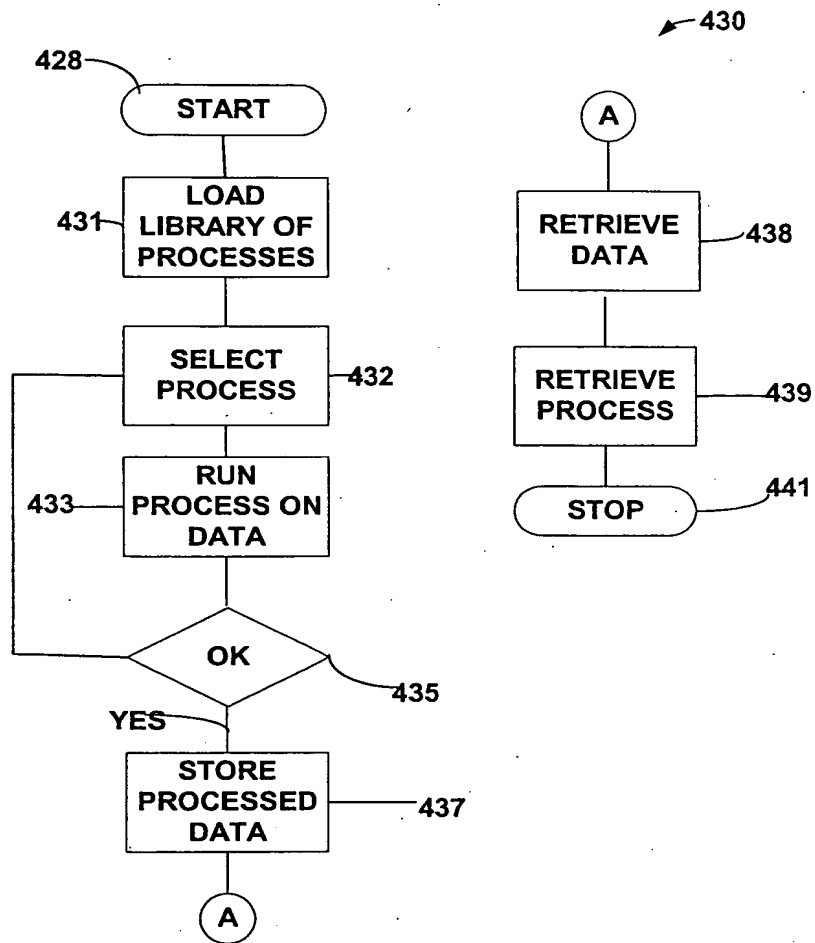


FIG. 4B

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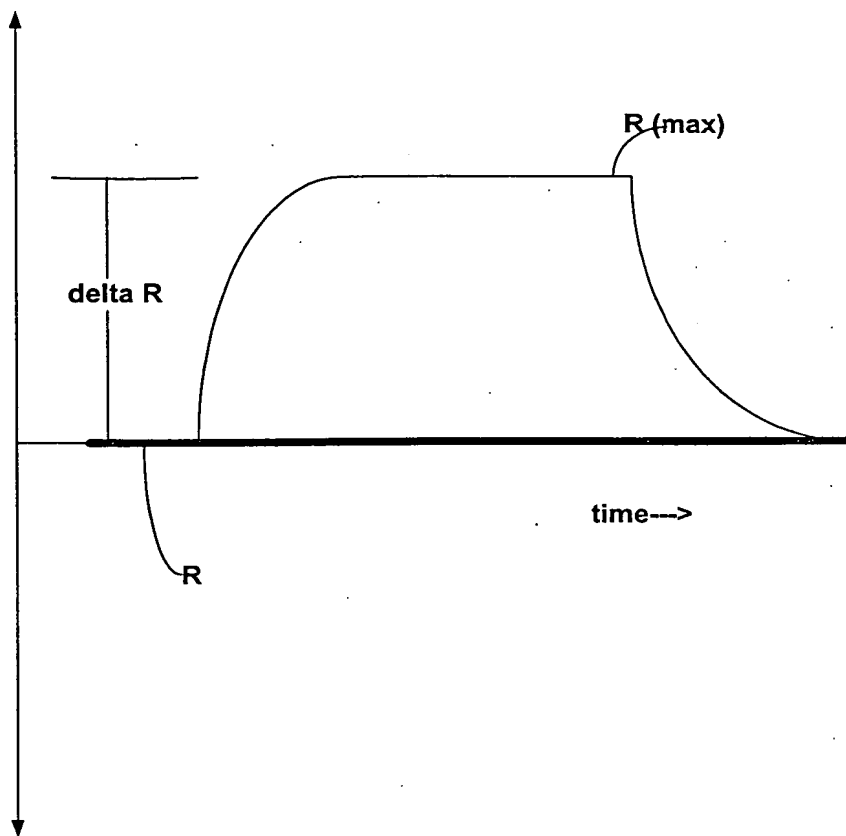


FIG. 4C

```

graph TD
    451[/PC Host Interface  
training set or unknown  
exposure time  
number of samples in  
training set (10-20)/] --> 452[acquire raw  
data in  
voltage]
    452 --> 453{baseline  
voltage out of  
range?}
    453 -- Yes --> 455((for training set:  
reject sensors for all  
analysis  
for prediction set :  
remove rejected sensors  
from the model and  
remake a model))
    453 -- No --> 454{voltage during  
exposure  
out of range?}
    454 -- Yes --> 455
    454 -- No --> 456[convert voltage to  
resistance]
    456 --> 457[Filter Type:]
    457 --> 458[Calculation of Response:  
use Baseline Correction to find Rmin]
    458 -- B --> 452
    458 --> A[A]
  
```

A

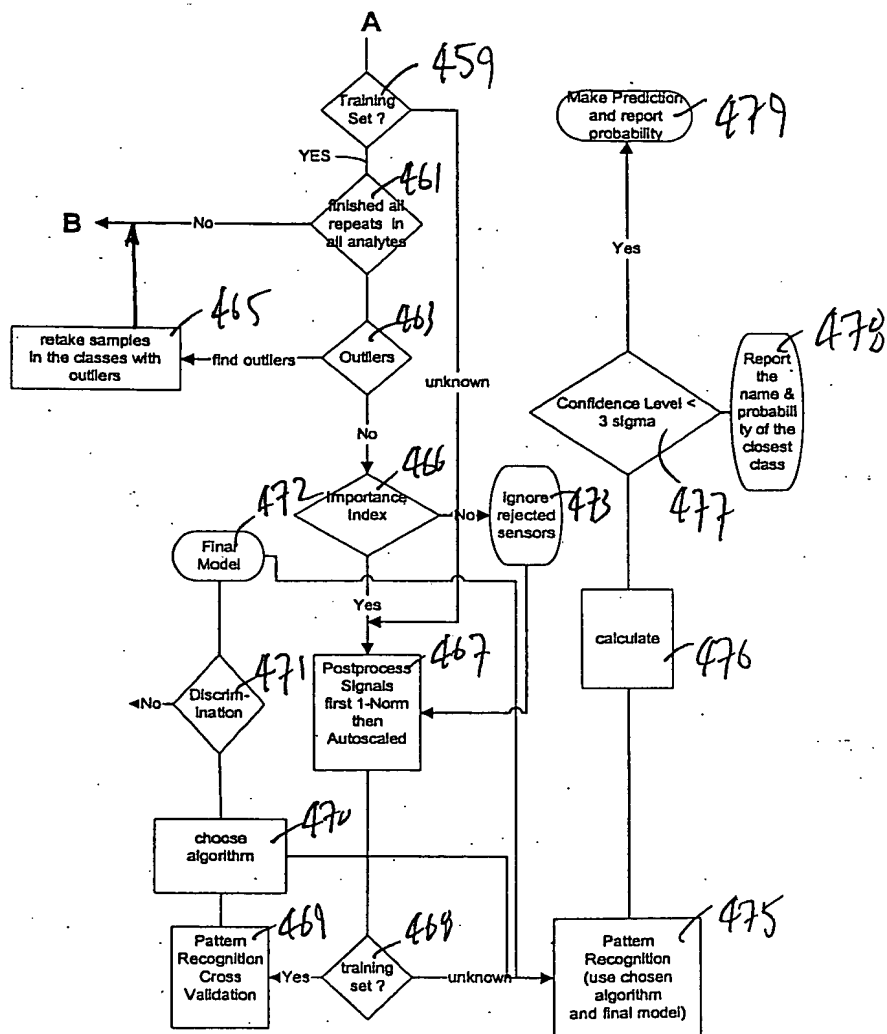


FIG. 4E